

## Amendments to the Claims

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

### Listing of Claims

1. (currently amended) ~~Shoulder~~ A shaftless shoulder joint prosthesis, comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head mountable solely on the prosthesis by a tap-on fit, and an attachment body of an at least two-part design including an attachment part for the mounting attachment of the calotte, as well as a mounting segment to effect an at least cement-free anchoring of the attachment body within the bone, wherein the attachment part is a disk-like positioning body having a medial hole about an axis of the body with a relatively large diameter annular-shaped section about the medial hole and axis, a first side of the annular-shaped section having fixation hooks or projections thereon to provide a provisional positionally-correct fixation to a pretreated bone, and a second side of the annular-shaped section opposite said first side having a relatively smaller diameter at least nearly circular, upstanding projecting collar about the medial hole and axis, the collar projecting outwardly from the second side of the annular-shaped section with an inner surface configured to position the mounting segment when effecting said anchoring and an external surface configured for form-locking engagement with and attachment of the calotte thereon solely by means of a tap on the calotte, and as said mounting segment an anchoring body having a hollow screw provided in order to affix

the positioning body to the bone through the medial hole in the projecting collar and the annular-shaped section.

2. -3. (cancelled)

4. (previously presented) Prosthesis according to Claim 1, wherein the calotte or joint head has at least one nearly spherical surface corresponding to a spherical section with an opening angle of  $< 180^\circ$ .

5. (previously presented) Prosthesis according to Claim 1, wherein the at least nearly circular projecting collar of the disk-like positioning body has a terminally located, conical support edge, and wherein a beveled retaining flange is formed on the hollow screw of the anchoring body terminally projecting outward to match the support edge so as to rest on or abut the support edge inside the collar .

6. (previously presented) Prosthesis according to Claim 5, wherein the joint head has an at least nearly hollow-cylinder-shaped receiver on the side opposite the nearly spherical surface for engaging the external surface of the collar to mount the joint head on the attachment body.

7. (previously presented) Prosthesis according to Claim 6, wherein the wall of the hollow-cylinder-shaped receiver and the external surface of the collar of the disc-like positioning body are of a slightly conical or beveled

design so as to provide a form-locking and positionally correct mounting of the joint head over the collar.

8. (currently amended) Method of fitting a shaftless shoulder joint prosthesis comprising an at least two-piece humeral head prosthesis, composed of a calotte or joint head mountable solely on the prosthesis by a tap-on fit, and an attachment body of an at least two-part design including an attachment part for the mounting attachment of the calotte, as well as a mounting segment to effect an at least cement-free anchoring of the attachment body within the bone wherein the attachment part is a disk-like positioning body having a medial hole about an axis of the body with a relatively large diameter annular-shaped section about the medial hole and axis, a first side of the annular-shaped section having fixation hooks or projections thereon to provide a provisional positionally-correct fixation to a pretreated bone and a second side of the annular-shaped section opposite said first side having a relatively smaller diameter at least nearly circular, upstanding projecting collar about the medial hole and axis, the collar projecting outwardly from the second side of the annular-shaped section with an inner surface configured to position the mounting segment when effecting said anchoring and an external surface configured for form-locking engagement with and attachment of the calotte thereon solely by means of a tap on the calotte, and as said mounting segment an anchoring body having a hollow screw provided in order to affix the positioning body to the bone through the medial hole in the projecting collar and the annular-shaped section, said method comprising fitting the attachment body of the prosthesis

on a previously prepared humerus without use of cement, and then fitting the joint head or calotte of the prosthesis on the attachment body, wherein said step of fitting the attachment body on the previously prepared humerus includes attaching the disk-like positioning body as said attachment part at a predetermined position to the prepared bone, wherein a provisional positionally-correct fixation is provided by the hooks or projections protruding from the positioning body, after which the positioning body is anchored or fixed to the bone by the hollow screw of said mounting segment which is inserted through the medial hole in the projecting collar and the annular-shaped section of the positioning body, and tapping on the calotte to form a tap-on fit between the calotte and the external surface of the collar for attaching the calotte on the attachment body of the prosthesis fixed to the bone.

9. - 10. (cancelled)

11. (currently amended) Method according to Claim 8, wherein the external surface of the at least nearly circular projecting collar is slightly conically-shaped and the joint head is fitted on the fitted attachment body with the slightly conically-shaped collar protruding from the bone by an approach in which a hollow-cylinder-shaped receiver on the inside of the joint head, which receiver also has a slightly conically-shaped wall, is mounted in a form-locking manner over the collar; and that finally the joint head is definitively

fastened or fixed by applying a force to its external surface to form said tap-on  
fit.

12. - 16. (cancelled)